

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 81-57

WASTE DISCHARGE REQUIREMENTS FOR:

CASTLEWOOD COUNTRY CLUB
PLEASANTON, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Board), finds that:

1. The Board adopted Order No. 78-23, March 21, 1978, prescribing waste discharge requirements for the Castlewood Country Club's private sewage treatment system and disposal facilities. This Order prohibited discharge to surface waters and cited the Club's stated intent to terminate use of its private treatment and land disposal facilities and transport its untreated sewage into the Dublin-San Ramon Services District waste treatment facilities (for treatment and disposal), via a proposed force main and an existing interceptor.
2. On May 22, 1979 the County of Alameda added sewer services to Alameda County Service Area R-1967-1 and assumed responsibility for the construction and operation of the proposed transport facilities. Castlewood Country Club is still responsible for the operation of the existing facilities.
3. Order No. 78-23 stated that the Board would amend its requirements to include a detailed time schedule, following receipt of a satisfactory technical report. On October 3, 1979 the County's consultant submitted a satisfactory compliance time schedule to plan, design and construct the necessary facilities to eliminate the threat of wastes being discharged to surface waters.
4. On December 18, 1979, the Board amended Order No. 78-23 by adopting Order No. 79-159, incorporating the recommended compliance time schedule and an expiration date predicated upon timely completion of the project. In order to facilitate a long-term solution the County Service Area applied for Clean Water Grant Funding to finance the Castlewood area facilities and facility planning (the County Service Area does not own or operate the Castlewood facilities). Due to funding delays and the funding requirements to determine the cost-effective project, the facility plan has been delayed and is not yet completed. The Order expired July 1, 1981 and a report of waste discharge has been submitted for renewal of the waste discharge requirements. This Order is essentially the same as Order No. 78-23 as amended by Order No. 79-159 with the exception that requirements for BOD and coliform have been deleted.

5. Castlewood Country Club's intermediate (between primary and secondary) sewage treatment and disposal facilities are immediately adjacent to Arroyo de la Laguna, a tributary of Alameda Creek, and southwest of Pleasanton. Treatment and disposal facilities consist of comminutor, primary sedimentation, cavitation aeration, sludge digestion, and five evaporation-percolation ponds. (Two of which are under construction now to provide more storage and freeboard and reduce the threat of overflows from winter rains.) A temporary sprinkler irrigation system has been used at times in the past for land disposal.
6. The discharger's sewage treatment and disposal facilities receive domestic sewage from approximately 125 residences plus a country club. Design flow for this facility is 35,000 gallons per day. Present average dry weather flow is approximately 50,000 gallons per day. Influent to and percolation from the ponds is often erratic for unknown reasons.
7. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin on April 15, 1975 containing water quality objectives and prohibitions that establish the beneficial uses of Arroyo de la Laguna, Alameda Creek, and ground waters.

The beneficial uses of Alameda Creek and Arroyo de la Laguna are:

- a. Agriculture use;
- b. Ground water recharge for domestic, agriculture, and industrial uses;
- c. Body contact recreation;
- d. Wildlife propagation and sustenance, and waterfowl and migratory bird habitat and resting;
- e. Fish propagation;
- f. Fishing;
- g. Esthetic appeal.

Existing and potential ground water beneficial uses applicable to the local basin are municipal supply, industrial process water supply, and agricultural uses.

The Basin Plan prohibits direct discharge of wastewater during the portion of the year when no natural flow occurs in Alameda Creek above Niles. The Basin Plan also prohibits discharge "at any point at which the wastewater does not receive a minimum initial dilution of at least 10:1"; and "into any non-tidal water or deadend slough or similar confined water area or their immediate tributaries." This Order implements the waste discharge prohibitions stated above.

8. Any overflow of treated waste effluent into Arroyo de la Laguna from Castlewood's evaporation-percolation ponds would cause degradation of the quality of surface waters into Arroyo de la Laguna and Alameda Creek and of ground waters in the Niles Cone. Percolation of wastewaters may adversely effect the beneficial uses of the ground waters. Past problems with the capacity of the ponds required adoption of Cleanup and Abatement Order No. 77-022 in December 1977 to effect correction. Current on-site inspections indicate similar problems still exists.
9. The former General Manager, Legal Counsel, and several Board members of Castlewood Country Club have stated that their intent for a long-term solution is to terminate the use of their sewage treatment and disposal facilities as soon as possible. Castlewood has purchased interceptor capacity and is in the West Pleasanton Sewer Assessment District formed in 1967. Castlewood also has limited capacity in the Livermore-Amador Valley Water Management Agency export pipeline, but it does not have guaranteed capacity in the Dublin San Ramon Services District treatment facility. The Castlewood facility plan and EIR now underway will address this issue and determine the appropriate cost-effective facility.
10. The County Services Area is in the process of developing a long-term solution for the discharger's waste treatment and disposal through a facility plan and EIR. Upon completion and submittal of a satisfactory facility plan and EIR, the Board will reconsider these requirements. It is the Board's intent in these requirements to establish interim limitations only.
11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
12. The discharger and interested agencies and persons have been notified of the Board's intent to adopt interim requirements for the existing discharge and have been provided with the opportunity to submit their written views and recommendations.
13. This project involves the continued operation of a privately-owned sewage treatment and disposal facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED, that Castlewood Country Club, pursuant to the provisions of Division 7 of the California Water Code, and regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. Overflow from the evaporation-percolation ponds is prohibited.

2. The direct discharge of wastewater from the discharger's treatment and disposal facilities to Arroyo de la Laguna is prohibited.

B. Interim Limitations

The discharger shall comply with the following interim specifications immediately:

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. To prevent threat of overflows, a minimum freeboard of 2 feet shall be maintained in each evaporation-percolation pond at all times.
3. The discharge of waste shall not degrade the quality of any ground water.
4. The discharge of waste shall not cause seepage to surface at any place outside the percolation ponds.
5. The waste as discharged to the percolation ponds shall be at all times an adequately disinfected, oxidized wastewater and shall meet the following quality limits at all times:
 - a. Dissolved oxygen 2.0 mg/l, minimum
 - b. Dissolved sulfide 0.1 mg/l, maximum

C. Provisions

1. The discharger shall file with the Regional Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
2. The discharger shall permit the Regional Board or its authorized representatives in accordance with California Water Code Section 13267(c):
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this order.
 - c. Inspection of any monitoring equipment or method required by this order.
 - d. Sampling of any discharge.
3. The discharger shall maintain a copy of this Order at the site so as to be available at all times to personnel operating waste treatment and disposal facilities.

4. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.
5. Castlewood Country Club shall comply or facilitate compliance with the following time schedule to assure a long term solution to waste treatment and disposal through planning and construction.

<u>Task</u>	<u>Completion Date</u>	<u>Report of Compliance Due</u>
a. Submit Step 1 Facilities Plan	February 15, 1982	March 1, 1982
b. Submit Completed EIR	February 15, 1982	March 1, 1982
c. Complete Design	*	*
d. Award Contract for Construction	*	*
e. Complete Construction	*	*

*Castlewood Country Club shall submit or cause to be submitted a compliance time schedule for these dates satisfactory to the Executive Officer not later than April 1, 1982.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on October 21, 1981.

FRED H. DIERKER
Executive Officer

Attachment:
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

AMENDED

SELF-MONITORING PROGRAM
FOR

The Castlewood Country Club

ORDER NO. 81-57

CONSISTS OF

PART A (dated January 1978)

AND

PART B Date Ordered April 12, 1978

Amended _____

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

<u>Station</u>	<u>Description</u>
A-1	At any point at which all waste tributary to the treatment plant is present.

B. EFFLUENT

<u>Station</u>	<u>Description</u>
E-0	At a point where the treated waste discharges to pond #1.
E-1A	In pond #1.
E-2A	In pond #2.
E-3A,	In pond #3.
E-3B	In pond #3. See attached plan
E-4	In pond #4.
E-5	In pond #5.

C. GROUND WATER

<u>Station</u>	<u>Description</u>
G-1	At well number 3S/1E-29P2
G-2	At well number 3S/1E-32G2
G-3	At well number 3S/1E-32K4

In the event that the discharger chooses to monitor ground water stations G-1 through G-3 by obtaining the data generated by the cooperative monitoring program of Zone 7 of the Alameda County Flood Control and Water Conservation District and the United States Geological Survey, the discharger will not be responsible for omissions or errors in data supplied by Zone 7 and USGS.

II. SCHEDULE OF SAMPLING AND ANALYSIS

- A. The schedule of sampling and analysis shall be that given as Table I.
- B. The results of the ground water sampling will be reported annually by March 15 for the previous calendar year.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 81-57.
2. Does not include the following sections of Part A: C.3., C.4., C.5.a., D.1., D.3., E.4., F.3.c., F.3.e., Appendix A, Appendix C, Appendix E.
3. Has been ordered amended by the Executive Officer on the date below and becomes effective immediately.
4. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I
2 Maps

Date Amended _____

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A-1	E-1A, 2A, 3A, 3B ^{4,5}			E-0		G-1, 2, 3												
TYPE OF SAMPLE	Cont	G	C-8		G	C-8													
Flow Rate (mgd)	D																		
BOD, 5-day, 20° C, or COD (mg/l & kg/day)		M	M			M													
Chlorine Residual & Dosage (mg/l & kg/day)																			
Settleable Matter (ml/1-hr. & cu. ft./day)																			
Total Suspended Matter (mg/l & kg/day)																			
Oil & Grease (mg/l & kg/day)																			
Coliform (Total) (MPN/100 ml) per req't		M			M														
Fish Toxicity, 96-hr. TL ₅₀ % Survival in undiluted waste																			
Ammonia Nitrogen (mg/l & kg/day)																			
Nitrate Nitrogen (mg/l & kg/day)																			
Nitrite Nitrogen (mg/l & kg/day)																			
Total Organic Nitrogen (mg/l & kg/day)																			
Total Phosphate (mg/l & kg/day)																			
Turbidity (Jackson Turbidity Units)																			
pH (units)																			
Dissolved Oxygen (mg/l and % Saturation)		M			M														
Temperature (°C)																			
Apparent Color (color units)																			
Secchi Disc (inches)																			
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)		M			M														
Arsenic (mg/l & kg/day)																			
Cadmium (mg/l & kg/day)																			
Chromium, Total (mg/l & kg/day)																			
Copper (mg/l & kg/day)																			
Cyanide (mg/l & kg/day)																			
Silver (mg/l & kg/day)																			
Lead (mg/l & kg/day)																			

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

[illegible]

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C- 8 = composite sample - 8-hour
C-X = composite sample - X hours
 (used when discharge does not
 continue for 24-hour period)
Cont = continuous sampling
DI = depth-integrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

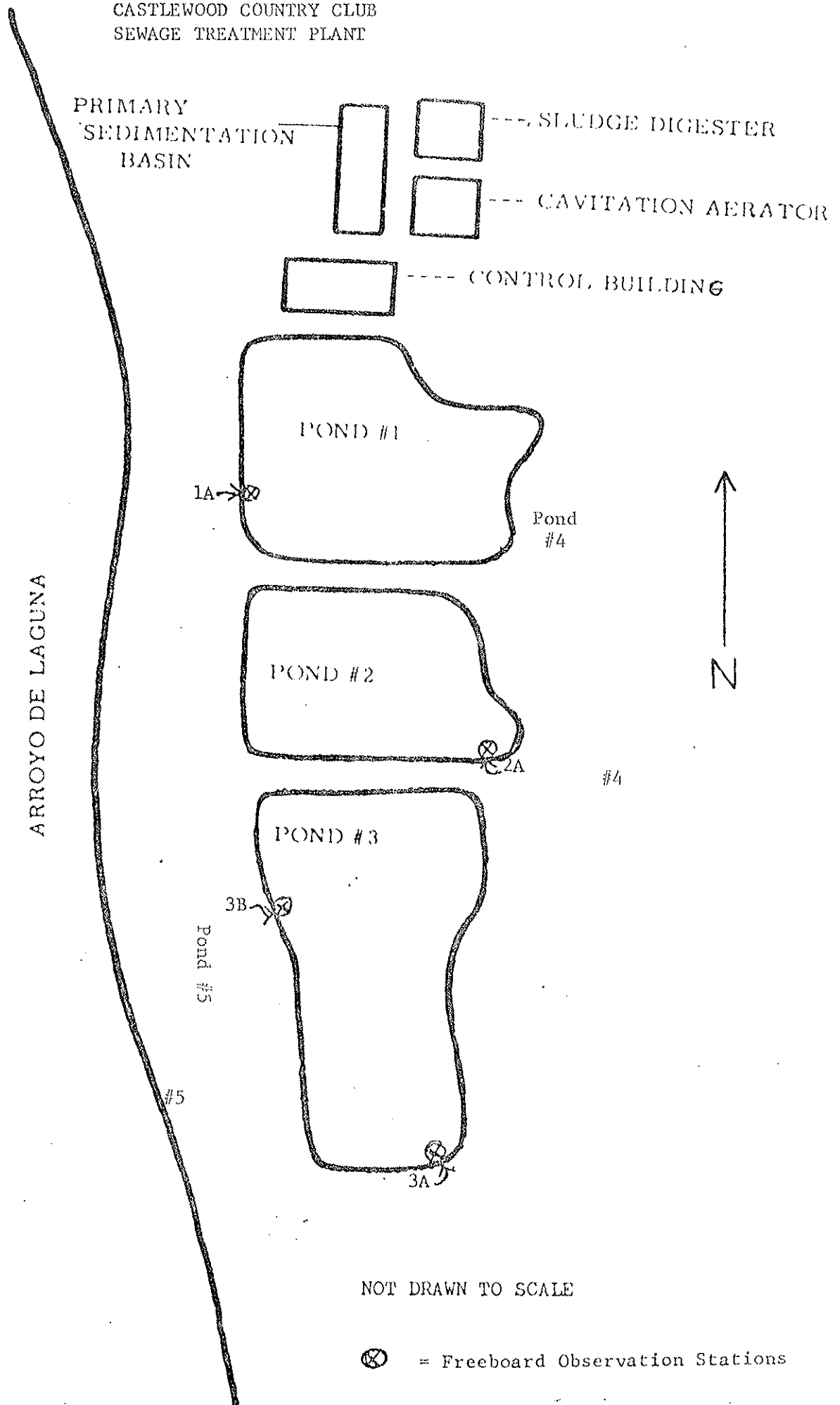
FREQUENCY OF SAMPLING

E = each occurrence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and
 once in September
Q = quarterly, once in
 March, June, Sept.
 and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
2M = every 2 months
3M = every 3 months
Cont = continuous

CASTLEWOOD COUNTRY CLUB
SEWAGE TREATMENT PLANT



BERNAL

MOCKE
AERODROME
MILITARY RESERVATION

USDA
Plant Research
Center

Pleasanton

WESTERN PACIFIC

Pleasanton

RIW RIE

ov. 75

itible

ry